

DIALOG(R)File 352:Derwent WPI

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Pneumatic tyres - includes rubber, two or more antioxidants selected from  
N-(1,3-dimethylbutyl)-N'-phenyl-p-phenylenediamine,  
N,N'-di-sec-butyl-p-phenylenediamine, and  
N-methylheptyl)-N'-phenyl-p-phenylenediamine

Patent Assignee: BRIDGESTONE CORP (BRID )

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 11172049	A	19990629	JP 97345054	A	19971215	199936 B

Priority Applications (No Type Date): JP 97345054 A 19971215

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
JP 11172049	A	3	C08L-021/00	

Abstract (Basic): JP 11172049 A

Pneumatic tyre(s) (I) equipped with side rubber(II) composed of (a) and (b) is claimed. (a) = rubber; (b) = two or more antioxidants selected from: (A) N-(1,3-dimethylbutyl)-N'-phenyl-p-phenylenediamine; (B) N,N'-di-sec-butyl-p-phenylenediamine; and (C) N-methylheptyl)-N'-phenyl-p-phenylenediamine.

ADVANTAGE - (b) gives (a) far improved resistance to ozone-crack and colouring than former composition of (A) and N,N'-diallyl-p-phenylenediamine, as a result, (II) shows good resistance to ozone-crack and good appearance.

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Title Terms: PNEUMATIC; TYRE; RUBBER; TWO; MORE; ANTIOXIDANT; SELECT;  
N; N;

PHENYL; P; PHENYLENEDIAMINE; N; N; DI; SEC; BUTYL; P;

PHENYLENEDIAMINE; N

; N; PHENYL; P; PHENYLENEDIAMINE

Derwent Class: A12; A95; E14; Q11

International Patent Class (Main): C08L-021/00

International Patent Class (Additional): B60C-001/00; C08K-005/18

File Segment: CPI; EngPI

Manual Codes (CPI/A-N): A08-A05; A08-A06; A12-T01; E10-B01E

Chemical Fragment Codes (M3):

\*01\* G010 G013 G100 H1 H102 H142 M1 M121 M143 M210 M216 M220 M222 M232  
M273 M281 M320 M414 M510 M520 M532 M540 M782 M903 M904 Q130 Q624  
R038 9936-CUH01-K 9936-CUH01-M

\*02\* G013 G100 H1 H102 H142 M210 M214 M232 M273 M282 M320 M414 M510  
M520

M531 M540 M782 M903 M904 Q130 Q624 R038 9936-CUH02-K 9936-CUH02-M

Polymer Indexing (PS):

<01>

\*001\* 018; R24073 D01 D02 D03 D12 D10 D51 D53 D59 D85 P0599 H0124 B5061;  
H0124-R; M9999 M2073; L9999 L2391; L9999 L2073

\*002\* 018; R00806 G0828 G0817 D01 D02 D12 D10 D51 D54 D56 D58 D84; H0000;  
H0124-R; M9999 M2073; L9999 L2391; L9999 L2073; P0328 ; P0339

\*003\* 018; ND01; K9745-R; K9892; Q9999 Q9256-R Q9212; B9999 B3849-R B3838  
B3747; B9999 B4637 B4568; B9999 B4648 B4568; B9999 B4262 B4240

\*004\* 018; D01 D11 D10 D19 D18 D32 D31 D76 D50 D93 F09 F07; A999 A497  
A486; A999 A500 A486; A999 A771

\*005\* 018; R05085 D00 D09 C- 4A; A999 A419

\*006\* 018; R01725 D00 D09 S- 6A; A999 A157-R

\*007\* 018; D01 D22-R D75 D23 D22 D41 D43 F00 F15; R00122 D01 D11 D10 D50  
D93 F36 F35; R01520 D00 F20 Zn 2B Tr O- 6A; A999 A146; A999 A771

\*008\* 018; A999 A226; S9999 S1376

Generic Compound Numbers: 9936-CUH01-K; 9936-CUH01-M; 9936-CUH02-K;  
9936-CUH02-M